

# Notice of Allowability

Application No.

09/847,055

Examiner

C. Melissa Koslow

Applicant(s)

STARK ET AL.

Art Unit

1755

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment of 11/5/04 and the interview of 11/16/04.
2. ☒ The allowed claim(s) is/are 1-8, 10-24 and 78-115.
3. ☒ The drawings filed on 05 November 2004 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ms. Tener and Mr. Miller on 16 November 2004.

The application has been amended as follows:

1. (Currently Amended) A composition for controlling temperature induction heating comprising at least one matrix material and ferromagnetic electrically non-conductive hexagonal ferrite particles, where the ferrite particles are greater than or equal to about 1 micron in size and have a specific Curie temperature ( $T_c$ ) in the matrix material and wherein the specific Curie temperature is substantially similar to a processing temperature of the matrix material, ~~and wherein the composition is capable of being heated to the Curie temperature by applying a magnetic field to the composition at a frequency of less than about 39 MHz .~~

17. (Currently Amended) A composition for controlling temperature induction heating comprising a matrix material and ferromagnetic soft electrically non-conductive ferrite particles, where the ferrite particles are greater than or equal to about 1 micron in size and have a specific Curie temperature ( $T_c$ ) in the matrix material and wherein the specific Curie temperature is substantially similar to a processing temperature of the matrix material, ~~and wherein the composition is capable of being heated to the Curie temperature by applying a magnetic field to the composition at a frequency of less than about 39 MHz .~~

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78. (Currently Amended) A composite comprising a matrix and a susceptor included in the matrix for heating the matrix to a desired Curie temperature, wherein the specific Curie temperature is substantially similar to a processing temperature of the matrix material, wherein the susceptor comprises ferromagnetic, electrically non-conductive hexagonal ferrite particles, where the ferrite particles are greater than or equal to about 1 micron in size, wherein the particles have the composition  $\text{SrFe}_{12}\text{O}_{19}$ ,  $\text{Me}_a\text{-2W}$ ,  $\text{Me}_a\text{-2Y}$  and  $\text{Me}_a\text{-2Z}$ , wherein 2W is  $\text{BaO:2Me}_a\text{O:8Fe}_2\text{O}_3$ , 2Y is  $2(\text{BaO:Me}_a\text{O:3Fe}_2\text{O}_3)$ , and 2Z is  $3\text{BaO:2Me}_a\text{O:12Fe}_2\text{O}_3$ , and wherein  $\text{Me}_a$  is a divalent cation or ferromagnetic soft electrically non-conductive ferrite particles, where the ferrite particles are greater than or equal to about 1 micron in size, wherein the particle have having the composition  $1\text{Me}_b\text{O:1Fe}_2\text{O}_3$ , where  $\text{Me}_b\text{O}$  is a transition metal oxide, ~~and wherein the composite is capable of being heated to the Curie temperature by applying a magnetic field to the composition at a frequency of less than about 39 MHz.~~

113. (New) The composition of claim 1, wherein the composition is capable of being heated to the Curie temperature by applying a magnetic field to the composition at a frequency of about 80 kHz to about 30 MHz.

114. (New) The composition of claim 17, wherein the composition is capable of being heated to the Curie temperature by applying a magnetic field to the composition at a frequency of about 80 kHz to about 30 MHz.

115. (New) The composition of claim 78, wherein the composite is capable of being heated to the Curie temperature by applying a magnetic field to the composition at a frequency of about 80 kHz to about 30 MHz.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melissa Koslow whose telephone number is (571) 272-1371. The examiner can normally be reached on Monday-Friday from 8:00 AM to 3:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Bell, can be reached at (571) 272-1362.

The fax number for all official communications is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

cmk  
November 18, 2004

  
C. Melissa Koslow  
Primary Examiner  
Tech. Center 1700